

DEVYATOV, M.V., (shkola Kazani); NIKITIN, I.V.; ~~GORSHENKOV, N.G.~~; RUTKOVSKIY, O.O. (Alma-Ata); DAVYDOV, A.V.; LEBEDEVA, G.P.

Letters to the editor. Geog. v shkole 21 no.5:72-75 S-0  
'58. (MIRA 11:10)

1. Shkola No.5 g.Solnechnogorska (for Nikitin). 2. Yakhromskaya shkola Moskovskoy oblasti (for Gorshenkov). 3. Vikulovskaya shkola Tyumenskoy oblasti (for Davylov). 4. Ul'yanovskaya shkola Kaluzhskoy oblasti (for Lebedeva).

(Geography--Study and teaching)

GORSHENKOY, N. G.

ORAZMETOV, Z.; GORELKIN, L.M.; POTYAYEV, M.Ye.; ZARUDI, Ye.O., metodist;  
MITENEV, V.S.; VASIL'YEV, A.V.; GORSHENKOV, N.G.;  
RUTKOVSKIY, O.O.; KUSYAPKULOVA, T.Sh.

Letters to the editors. Geog. v shkole 22 no.2:72-76  
(MIRA 12:6)  
Mr-Ap '59.

1. 1-ya shkola pos. Andreyevka Turkmenskoy SSR (for Orazmetov).
2. Shkola pri shakhte No.11 Karachayevskogo rayona Stavropol'-skogo kraya (for Gorelkin).
3. Andreyevskaya semiletnyaya shkola Penzenskoy oblasti (for Potyayev).
4. Bashkirskiy institut usovershenstvovaniya uchiteley (for Zarudi).
5. Rayonnnyy pedagogicheskiy kabinet s.Kich-Gorodok Vologodskoy oblasti (for Mitenev).
6. Alekseyevskaya shkola Stalingradskoy oblasti (for Vasil'yev).
7. Yakhromskaya shkola No.2 Moskovskoy oblasti (for Gorshenkov).
8. 4-ya shkola g.Alma-Ata (for Rutkovskiy).
9. 64-ya shkola g.Alma-Ata (for Kusyapkulova).

(Geography--Study and teaching)

SAMOYLO, K.A., kand. tekhn. nauk, dotsent; FEDOSOVA, T.S., inzh.; GORSHENKOV,  
Yu.N., inzh.

Frequency division using a nonlinear capacitance. Trudy MEI 55:129-  
144 '65.

Frequency division using a nonlinear capacitance and a negative  
resistance. Ibid.:145-152 (MIRA 18:10)

L 33395-66

ACC NR: AR6012310

SOURCE CODE: UR/0274/65/000/010/B069/B069

AUTHOR: Samoylo, K. A.; Fedosova, T. S.; Gorshenkov, Yu. N.

TITLE: Frequency division by nonlinear capacitance and negative resistance

SOURCE: Ref. zh. Radiotekhnika i elektronika i elekrosvyaz', Abs. 10B504

REF SOURCE: Tr. Mosk. energ. in-ta, vyp. 55, 1965, 145-152

TOPIC TAGS: frequency division, frequency divider

ABSTRACT: The problem of frequency division by 2 by means of a nonlinear capacitance is considered. Excitation conditions and resonance curves with and without an inertial nonlinear negative resistance are determined from differential equations and a phase portrait. With ratios 3, 4 and higher, the reciprocal nonlinear capacitance is approximated by a trinomial. The second and third harmonics of current are taken into account. The cases with and without periodic solutions and their stability are considered. A study of the phase-plane topology shows that, with a certain amplitude of the external force, a stable singular point exists and, therefore, the division is possible. However, initial conditions are necessary which would keep the operation near the singular point. Thus, with a sufficient amplitude of synchronizing current and with a sufficient capacitance nonlinearity, a hard excitation results; the system should be somehow excited in order to perform

UDC: 621.396.622

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ACC NR: AR6012310

division. On an oscillation collapse, the division is not restored by itself. Stable division can be obtained by connecting an inertial negative resistance (tunnel diode, dynatron oscillator, etc.) to the circuit. In this case, the division band is widened. The nature of oscillation limiting plays an important part in the above phenomena. Experimental studies with a dynatron oscillator corroborated some theoretical claims, specifically, the presence of hysteresis in the system. With the negative resistance, the division by 3, 4, and 5 was observed. Without the negative resistance, only division by 2 was observed. With certain external-current amplitudes, the division by 3 persisted also without the negative resistance, but did not reestablish itself on oscillation collapse. Eleven figures. Bibliography of 1 title. Yu. Kh. [Translation of abstract]

SUB CODE: 09

Card 2/2  
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GORSHESHEHNIKOV, V.S., dots.; RUBANOVA, A., red.; BELYKH, I., tekhn.  
red.

[Biochemistry and the principles of organic and physical chemistry; manual for students of correspondence departments of the institutes of physical education] Biokhimiia s osnovami organicheskoi i fizicheskoi khimii; metodicheskoe posobie dlja studentov otделenii zaochnogo obuchenija institutov fizicheskoi kul'tury. Moskva, Izd-vo "Fizkul'tura i sport," 1963. 136 p.

(MIRA 17:3)

1. Soyuz sportivnykh obshchestv i organizatsii SSSR. Tsentral'-nyy Sovet. 2. Gosudarstvennyy tsentral'nyy institut fizicheskoy kul'tury (for Gorskeshnikov).

AUTHORS: Panchenkova, G. M., Gorshikov, V. I., Kuklanova, M. V. 76-32-3-18/43

TITLE: The Influence of Organic Solvents Upon the Ionic Exchange Equilibrium (Vliyaniye organicheskikh rastvoriteley na ravnovesiyu ionnogo obmena).  
II. The Influence of Acetone Upon the Ionic Exchange Equilibrium of Alkali Metals on Sulfo Resins  
(II. Vliyaniye atsetona na ravnovesiyu ionnogo obmena shchelochnykh metallov na sul'fomolakh)

PERIODICAL: Zhurnal Fizicheskoy Khimii, 1958, Vol. 32, Nr 3,  
pp. 616-619 (USSR)

ABSTRACT: Kressman and Kitchener (ref 1) obtained equilibrium constants of the ionic exchange of  $K^+$  in water-acetone mixtures, but did not explain the obtained results. Bafna (ref 2) does not give any confirmation of his assumptions either, whereas the investigations by Materova, Vert and Grinberg (ref 3) did not yield positive results, perhaps because of knowledge inexact of the activity coefficients in water-acetone solutions. Thus, there exists almost no satisfactory explanation on

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76-32-3-18/43

II. The Influence of Acetone Upon the Ionic Exchange Equilibrium of Alkali Metals on Sulfo Resins

the influence of acetone upon the ionic exchange equilibrium. The present paper investigates the ionic exchange equilibrium of the alkali metals  $\text{Li}^+$ ,  $\text{Na}^+$  and  $\text{K}^+$  on the domestic sulfo resins SBS, espatite-1 and the resin SM-12 (the latter contains sulfo and carboxyl groups), where the H-form of the resins was used and work was done in water-acetone solutions. The method of the taking of isothermal lines was described in an earlier paper. From the experimental results follows that acetone exerts a stronger influence on the equilibrium constant than methanol. The change of the constant with increasing acetone concentration is similar for all resins. The presence of the weakly dissociated  $-\text{COOH}$  groups in the resin SM-12 apparently does not play any part. The increase in the ionic exchange by the influence of acetone according to its strength acts like in water i.e. most on  $\text{K}^+$  and least on  $\text{Li}^+$ . In the investigations of the Li-form of the resin with  $\text{Na}^+$  ions it was determined that the values for  $\lg K$  yield a linear

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The Influence of Organic Solvents Upon the Ionic Exchange Equilibrium.

76-32-3-18/43 .

II. The Influence of Acetone Upon the Ionic Exchange Equilibrium of Alkali Metals on Sulfo Resins

function of  $1/D$  which indicates that no interaction of the ions with the molecules of the solvent takes place, but that the electrostatic ionic interaction is decisive. When a  $\text{Me}^+ - \text{H}^+$  exchange is performed, the linear function is not attained, which is explained by the fact that in this case an influence of the  $\text{H}^+$  ions upon the molecules of the solvent probably takes place. There are 3 figures, 3 tables, and 4 references, 2 of which are Soviet

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova  
(Moscow State University imeni M. V. Lomonosova)

SUBMITTED: November 13, 1956

Card 3/3

KLYUCHEROV, A.P.; KONDRAT'YEV, S.N.; Prinimali uchastiye: GUSAROV, F.V.;  
UDOVENKO, V.G.; PETROV, G.A.; BURKSER, V.Ye.; SHNOVIN, I.A.;  
KUDRIN, Ye.A.; GALAKHMATOV, S.N.; ZIMINA, L.P.; SHISHARIN, B.H.;  
KONDYURINA, R.V.; BURMISTROV, K.A.; SHIRNIN, I.A.; SIMONENKO, F.N.;  
GORSHILOV, Yu.V.; KOLPAKOV, B.V.; GUSAROV, A.K.; BOLOTOV, P.G.

Heat insulation of open-hearth furnace crowns. Metallurg 5 no.11:  
14-17 N '60. (MIRA 13:10)

1. Nizhe-Tagil'skiy metallurgicheskiy kombinat.  
(Open-hearth furnaces--Design and construction)  
(Insulation (Heat))

GORSHIN, E.A.

Efficiency promoters of our factory. Kons. i ov. prom. 15  
no. 12:4-5 D '60. (MIRA 14:1)

1. Konservnnyy kombinat v Krymske.  
(Krymsk—Canning and preserving—Equipment and supplies)

GORSHIN, E.A.

Creative cooperation of our efficiency promoters. Kons.i ov.prom. 16  
no.4:9-12 Ap '61. (MIRA 14:3)

1. Konservnnyy kombinat v Krymske.  
(Canning industry—Equipment and supplies)

GORSHIN, P.F.

KAMSHILOV, N.A.; ANTONOV, M.V.; BAKHAREV, A.N.; BLINOV, L.F.; BORISOGLIEBSKIY,  
A.D.; GAR, K.A.; GARINA, K.P.; GORSHIN, P.F.; GUTIYEV, G.T.;  
DELITSINA, A.V.; DUBROVA, P.F.; LEVTUSHENKO, A.F.; YEGOROV, V.I.;  
YEREMENKO, L.L.; YEFINOV, V.A.; ZHILITSKIY, Ya.Z.; ZHUCHKOV, N.G.,  
prof.; ZAYETS, V.K.; ISKOL'DSKAYA, R.B.; KOLESNIKOV, V.A., prof.;  
KOLESNIKOV, Ye.V.; KOSTINA, K.F.; KRUGLOVA, V.A.; LEONT'YEVA, M.N.;  
LESYUK, Ye.A.; MUKHIN, Ye.N.; NAZARYAN, Ye.A.; NEGRUL', A.M., prof.;  
ODITSOV, V.A.; OSTAPENKO, V.I.; PETRUSEVICH, P.S.; PROSTOSERDOV,  
N.N., prof.; RUKAVISHNIKOV, B.I.; RYABOV, I.N.; SABUROV, N.V.;  
SABUROVA, T.N.; SAVZDARO, V.E.; SEMIN, V.S.; SIMONOVA, M.N.;  
SMOLYANINOVA, N.K.; SOBOLEVA, V.P.; TARASENKO, M.T.; FETISOV, G.G.;  
CHIZHOV, S.T.; CHUGUNIN, Ya.V., prof.; YAZVITSKIY, M.N.;  
ROSSOSHCHANSKAYA, V.A., red.; BALLOD, A.I., tekhn.red.

[Fruitgrower's dictionary and handbook] Slovar'-spravochnik  
sadovoda. Gos.izd-vo sel'khoz.lit-ry, 1957. 639 p.  
(MIRA 11:1)

(Fruit culture--Dictionaries)

GORSHENIN, S.F.; BLOZEROV, A.N.

Comparison of horizontal and vertical transfer of loads. Gor. zhur.  
no.7:10-12 Jl '64. (MIRA 17:10)

1. Nauchno-issledovatel'skiy i proyektnyy institut "Gipronikel'",  
Leningrad.

GORSHIN, S.I.

Gorshin, S.I. "On the stability of motion with permanently active disturbances", Izvestiya Akad. Nauk. Kazakh. SSR, No. 56, Seriya matematiki i mekhaniki, Issue 2, 1943, p. 46-73, (Resume in Kazakh), -Bibliog: 5 items

SO: Up3042, 11 March 53, (Letopis 'nykh Statey, No. 9, 1949)

GORSHIN, S.I.

Gorshin, S.I. "Critical cases", Izvestiya Akad. Nauk. Kazakh. SSR, No. 56, Seriya matematiki i mekhaniki, Issue 2, 1948, p. 74-101, (Resume in Kazakh).

SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No. 9, 1949)

GORSHIN, S.

Mathematical Reviews  
Vol. 14 No. 8  
Sept. 1953  
Analysis

Gorsin, S. Some criteria of stability with constant disturbances. Izvestiya Akad. Nauk Kazah. SSR 1950, no. 97, Ser. Mat. Meh. 4, 51-56 (1950). (Russian)

These two papers take up the application of Lyapunov's second method [see Problème général de la stabilité du mouvement, Princeton, 1947, p. 255; these Rev. 9, 34] or the general idea of stability to an equation

$$(1) \quad \dot{x} = w(t; x) + f(t; x)$$

where  $x, w, f$  are vectors with a countable number of components,  $w(t; 0) = 0$ ,  $w$  and  $f$  are continuous in a set  $|x_n| < A$ ,  $n = 1, 2, \dots$ ,  $t > r$  and in that set each  $|f_n|$  can be made  $< \rho$ , any given positive number. In general, the author shows that the stability situation as obtained from Lyapunov's theorem or in general for (1) without  $f$  is unchanged by the presence of  $f$ .

S. Lefschetz (Princeton, N. J.).

GORSHIN

Mathematical Reviews

Vol. 14 No. 8

Sept. 1953

Analysis

Q/10-51  
LV

Goršin, S. Op Lyapunov's second method. Izvestiya  
Akad. Nauk Kazah. SSR 1950, no. 97, Ser. Mat., Meh.  
4, 42-50 (1950). (Russian)

GORSHIN, S.

USSR/Mathematics - Asymptotic Stability

FD-646

Card 1/1 : Pub. 85 - 1/20

Author : Malkin, I. G. (Sverdlovsk)

Title : Problem of the reversibility of Lyapunov's theorem on asymptotic stability

Periodical : Prikl. mat. i mekh., 18, 129-138, Mar/Apr 1954

Abstract : Establishes the conditions necessary and sufficient for the existence of the Lyapunov function satisfying all the conditions of Lyapunov's theorem on asymptotic stability. Refers to his earlier work (1937) and 6 other works, including S. Gorshin, "Stability of motion with constantly acting excitation, ~~mechanics~~, Izvestiya AN Kazakhskoy SSR, No 56, 1948.

Institution : Ural State University

Submitted : December 7, 1953

SOV/124-57-5-5174

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 5, p 11 (USSR)

AUTHOR: Gorshin, S. I.

TITLE: On the Stability With Respect to a Denumerable Number of  
Constantly-acting Perturbations in One Critical Case (Ob ustoychi-  
vosti so schetnym chislom postoyanno deystvuyushchikh vozmushche-  
niy v odnom kriticheskem sluchaye)

PERIODICAL: Izv. AN KazSSR, ser. matem. i mekhan., 1956, Nr 4, pp 38-42

ABSTRACT: The paper analyzes the denumerable system of differential equations  
(r, s = 1, 2, ...)

$$\frac{dz_r}{dt} = Z_r(t, x_1, x_2, \dots, z_1, z_2, \dots) + \phi_r(t, x_1, x_2, \dots, z_1, z_2, \dots)$$

$$\frac{dx_s}{dt} = X_s(t, x_1, x_2, \dots, z_1, z_2, \dots) + f_s(t, x_1, x_2, \dots, z_1, z_2, \dots)$$

where the functions  $Z_r$  and  $X_s$  become zero for  $x_1 = x_2 = \dots =$   
Card 1/2  $= z_1 = z_2 = \dots = 0$  and the functions  $\phi_r$  and  $f_s$ , which may be treated

SOV/124-57-5-5174

On the Stability With Respect to a Denumerable Number of Constantly-acting (cont.)  
as constantly-acting perturbations of the system

$$\frac{dz_r}{dt} = Z_r(t, x_1, x_2, \dots, z_1, z_2, \dots) \quad (1)$$

$$\frac{dx_s}{dt} = X_s(t, x_1, x_2, \dots, z_1, z_2, \dots)$$

satisfy the specified conditions. In order to arrive at the trivial solution of system (1) without perturbations, stability criteria are formulated "with constantly-acting perturbations, also", in the sense specified, and the theorem of the stability of the system is proved for a specific critical case wherein the functions  $X_s$  assume a special form. The paper under review is germane to the works of K. P. Persidskiy on the stability of the solutions of denumerable systems of differential equations.

I. M. Volk

Card 2/2

S/235/62/000/010/002/004  
E140/E463

AUTHOR: Gorshin, S.I.

TITLE: On the stability "in the large" of a denumerable system of differential equations with continuously acting perturbations

PERIODICAL: Akademiya nauk Kazakhskoy SSR. Izvestiya. Seriya matematiki i mehaniki, no.10 (14), 1962, 51-55

TEXT: Two theorems are proven concerning such systems:

1. If the solution of a system of differential equations without perturbations is stable in the large uniformly and asymptotically, the solution will be stable in the large with continuously acting perturbations.
2. If the solution of a system of differential equations without perturbations is unstable in the large, the solution will be unstable in the large with continuously acting perturbations.

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S/040/62/026/002/002/025  
D299/D301

AUTHOR: Gorshin, S.I. (Alma-Ata)

TITLE: On stability in the large of solutions of a finite system of differential equations under continuous disturbances

PERIODICAL: Prikladnaya matematika i mekhanika, v. 26, no. 2, 1962, 212 - 217

TEXT: Several theorems are proved on the stability of the solutions of a system of differential equations. The following system is considered:

$$\frac{dx_s}{dt} = \omega_s(t, x_1, x_2, \dots) + f_s(t, x_1, x_2, \dots) \quad (s = 1, 2, \dots), \quad (1.1)$$

where  $t$  is a real independent variable,  $x_1, x_2, \dots$  - real functions of  $t$ ,  $\omega_1, \omega_2, \dots$  - given real functions of  $t, x_1, x_2, \dots$ , in the interval

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On stability in the large of ...

$$t \geq 0, \sup[|x_1|, |x_2|, \dots] \leq L. \quad (1.2)$$

The functions  $f_1, f_2, \dots$ , the disturbances, are (in general) unknown, yet they satisfy in the region (1.2) the condition

$$|f_s(t, x_1, x_2, \dots)| \leq \rho \quad (s = 1, 2, \dots), \quad (1.3)$$

where  $\rho > 0$  is a quantity, individually determined in each particular problem. It is assumed that the right-hand sides of Eq. (1.1), satisfy in (1.2) certain conditions (continuity, single-valuedness, boundedness). The following 3 regions are considered (called "rings")

$$t \geq 0, \quad l_0 \leq \sup[|x_1|, |x_2|, \dots] \leq 1 \quad (1.5)$$

$$t \geq 0, \quad 1 \leq \sup[|x_1|, |x_2|, \dots] \leq L \quad (1.6)$$

$$t \geq 0, \quad l_0 \leq \sup[|x_1|, |x_2|, \dots] \leq L. \quad (1.7)$$

Together with system (1.1), the system of differential equations without disturbances

$$\frac{dx_s}{dt} = \omega_s(t, x_1, x_2, \dots) \quad (s = 1, 2, \dots) \quad (1.8)$$

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D299/D301

On stability in the large of ...

is considered. The concepts "stability in the large" and "uniform stability in the large" are defined with reference to the solutions of systems (1.1) and (1.8). Further, a definition is given of "absolute strong instability in the large". The real functions  $V(t, x_1, x_2, \dots)$  are considered, defined and continuous in the ring (1.7).

It is assumed that the function  $V(t, x_1, x_2, \dots)$  satisfies in the region (1.2) Lipschitz's condition:

$$|V(t + \Delta t, x_1^u, x_2^u, \dots) - V(t, x_1^l, x_2^l, \dots)| \leq k(\Delta t + \Delta x). \quad (2.1)$$

The first theorem states that if the function  $V$  satisfies in (1.6) Lipschitz's condition, then the inequalities

$$\left| \frac{dV}{dt} - V'_+ \right| \leq kp, \quad \left| \frac{dV}{dt} - V'_- \right| \leq kp$$

hold, in the ring (1.6), at almost every point of the integral curves of system (1.1). Theorem 2 states that if a (fixed-sign) function  $V$  exists in (1.6), satisfying Lipschitz's condition, and its

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On stability in the large of ...

S/040/62/026/002/002/025  
D299/D301

derivative  $V'$  is of opposite (fixed) sign, then the solution is stable in the large even under continuous disturbances. Theorem 3 states the conditions under which the solutions have absolute strong instability in the large. There are 5 Soviet-bloc references.

SUBMITTED: November 1, 1961

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Card 4/4

GORSHIN, S.I.

Stability in the large of solutions to a counting system of  
differential equations in the case of continuous perturbations.  
Izv. AN Kazakh. SSR. Ser. mat. i mekh. no.10:51-55 '62.  
(MIRA 15:9)  
(Differential equations)

GORSHIN, S. I.

On the Stability "on the whole" at Uninterrupted Perturbations  
p. 18

TRANSACTIONS OF THE 2ND REPUBLICAN CONFERENCE ON MATHEMATICS AND MECHANICS  
(TRUDY VTOROJ RESHUBLIKANSKojj KONFERENCIII PO MATEMATIKE I MEKHANIKE), 184  
pages, published by the Publishing House of the AS KAZAKH SSR, ALMA-ATA, USSR, 1962

GORSHIN, S.I.

Stability of solutions to equations in a linear normed space  
with continuous perturbations. Izv. AN Kazakh. SSR. Ser.  
fiz.-mat. nauk 3 no. 3:102-109 S-D '65. (MIRA 18:12)

GORSHIN, S. N.

GORSHIN, S. N. "The Infection of Young Spruce-fir Stands with Rots,"  
Opytv i issledovaniia Vsesoiuznogo Nauchno-Issledovatel'skogo  
Lesokul'turnogo i Agro-komeliorativnogo Instituta, no. 1, 1933,  
pp. 26-57. 99.9 M815

SOURCE: SIRA SI 90-53 15 Dec. 1953

GORSHIN, S. N.

GORSHIN, S. N. "On the Question of Determining the Silvicultural Importance of Separate Defects of Trees and Total Devaluation of Stands," Osnovy i Issledovaniia Vsesoiuznogo Nauchno-Issledovatel'skogo Lesokul'turnago i Agrolesom-lichorativnogo Instituta, no. 1, 1933 pp. 87-94. 99.9 M854

SOURCE: SIRA SI 90-53 15 Dec. 1953

GORSHIN, S. N.

GORSHIN, S. N. "Causes of Infection of Spruce-fir Stands with Rots,"  
Opyty i Issledovaniya Vsesoiuznogo Nauchno-Issledovatel'skogo  
Lesokul'turnogo i Agrolesomeliorativnogo Instituta, no. 2,  
1934, pp. 70-88. 99.9 M854

SOURCE: SIRA SI 90-53 15 Dec. 1953

GORSHIN, S. N.

GORSHIN, S. N. "On Certain Problems of the Defects of Spruce and Fir Stands," Opyty i Issledovaniia Vsesoiuznogo Nauchno-Issledovatel'skogo Lesokul'turnogo i Agrolesomeliorativnogo Instituta, no. 5, 1934, pp. 71-96. 99.9 M845

SOURCE: SIRA SI 90-53 15 Dec. 1953

Gorshin, S. N.

USSR .

"Present-day lumber preservation, and the use of preservative mixtures. S. N. Gorshin. Trudy Inst. Lesa, Akad. Nauk S.S.R. 6, 301-80(1950).—A review with 60 references.  
John Lake Keay

GORSHIN, S.N.; KRECHETOV, I.V., redaktor; RYKACHEV, P.I., redaktor.

[Spraying wood; protection of stored logs for sawing and veneer  
against damage by fungi] Dozhdevanie drevesiny; zashchita pilovoch-  
nykh breven i fanernykh kriashchii na skladakh ot porazheniya gribami.  
Moskva, Goslesbumizdat, 1953. 223 p.  
(MIRA 7:8)  
(Wood--Preservation)

GORSHIN, S. N.

Investigation of selective toxic properties of possible components of combined preparations. S. N. Gershin and P. I. Rykachev. Nauchno-tekhnicheskii Sbornik Trudov (Gosleshumizdat, Moscow-Leningrad) Sbornik Trudov 1953, 21-37; Referat. Zhar., Khim. 1954, No. 45581.—The wood antiseptic properties of the following solas. have been studied: soda 3.48-8.00, borax 3.00-4.32, diethyl mercury phosphate 0.020-0.045, and Na pentachlorophenolate 0.20-1.44%, resp. The growth and development of 44 different wood fungi were observed. It was found that none of the antiseptics, if used alone, can prevent the growth of all the fungi, found on not fully dried fir and pine-woods. Each of the antiseptics inhibits the growth of only a few or a group of the fungi. The remaining species either continue to grow up to the very high concens. of antiseptic, or their growth is even stimulated by the antiseptic used.

E. Wiericki

CH  
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GORSHIN, Sergey Nikolayevich; CHERNTSOV, I.A., red.; PITERMAN, Ye.L.,  
red.izd-va; PARNEHINA, N.L., tekhn.red.

[Wood preservation in Sweden] Zashchita drevesiny v Shvetsii.  
Moskva, Goslesbumizdat, 1959. 109 p. (MIRA 13:2)  
(Sweden--Wood--Preservation)

GORSHIN, S.N., red.; AZAROVA, V.G., red. izd-va; VDOVINA, V.M.,  
tekhn. red.

[Problems of the preservation of wood] Voprosy zashchity  
drevesiny; sbornik statei. Moskva, Goslesbumizdat,  
1961. 210 p.  
(MIRA 15:11)

1. Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut  
mekhanicheskoy obrabotki drevesiny. 2. Predsedatel' organi-  
zatorskogo komiteta Vsesoyuznoy nauchno-tehnicheskoy kon-  
ferentsii po zashchite drevesiny, 1958 g. (for Gorshin).  
(Wood—Preservation)

GORSHIN, Sergey Nikolayevich; TELYATNIKOVA, Betya Irailevna; RYKACHEV,  
P.I., red.; LEBEDEVA, I.D., red. izd-va; SHIBKOVA, R.Ye.,  
tekhn. red.

[Pentachlorophenol and its use for wood preservation] Pentakhlor-  
fenoi i ego primenenie dlia zashchity drevesiny. Moskva, Gos-  
lesbumizdat, 1962. 212 p. (MIRA 15:7)  
(Phenol) (Wood—Preservation)

KALNIN'SH, Arvid Yanovich[Kalnins, Arvids], akademik; GORSHIN, S. N.,  
retsenzent; BARAKS, A.M., red.; GOSPODARSKAYA, T.N., red.  
izd-va; GRECHISHCHEVA, V.I., tekhn. red.

[Preservation of wood]Konservirovaniye drevesiny. Moskva, Gos-  
lesbumizdat, 1962. 143 p. (MIRA 16:3)

1. Starshiy nauchnyy sotrudnik TSentral'nogo nauchno-issledova-  
tel'skogo instituta mekhanicheskoy obrabotki dereva (for Gorshin).  
(Wood—Preservation)

GORSKIN, S. N.

Make more extensive field investigations of antiseptics for  
wood. Der. prom. 12 no. 2:20 F '63. (MIRA 16:4)

(Wood preservatives)

GORSHIN, S.N.

Studying the factors regulating the air drying of lumber. Nauch.  
trudy TSNILIMOD no.12:3-45 '62.  
(MIRA 16:12)

GORSHIN, S.N.; UGOLEV, B.N.

Investigating the correlation between the thickness of layers and  
the width of interspaces in air drying of lumber. Nauch. trudy  
TSNIIIMOD no.12:46-61 '62. (MIRA 16:12)

GORSHIN, S.N.; CHERNTSOV, I.A.

Comparative investigation of the effectiveness of preserving birch  
wood by the sprinkling method. Nauch. trudy TSNIIIMOD no.12:62-79  
'62. (MIRA 16:12)

GORSHIN, S.N.; KLYKOV, A.A.

Adjustment of agricultural sprinkling equipment for spraying log  
piles and checking the effectiveness of sprinkling saw logs. Nauch.  
trudy TSNIIMOD no.12:80-91 '62. (MIRA 16:12)

GORSHIN, S.N.; KRAPIVINA, I.G.

Effect of various sources of moistening on lumber infected by fungi causing the bluing of wood. Nauch. trudy TSNIIMOD no.12:92-110 '62.

Studying the resistance of lumber infected by fungi causing the bluing of wood to the complex of wood-decaying agents inhabiting soil. Ibid.:111-118

Identification of fungi causing the bluing of wood based on the macroscopic signs of lumber infection. Ibid.:119-130

(MIRA 16:12)

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CIA-RDP86-00513R000516320003-1

GORSHIN, S.N.; MIKHAYLICHENKO, A.L.; NECHAYEVA, N.P.

Investigating the technical properties of darkened lumber. Nauch.  
trudy TSNIMOD no.12:131-147 '62. (MIRA 16:12)

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CIA-RDP86-00513R000516320003-1"

GORSHIKO, G.P.

Oct 53

USSR/Geophysics - Seismology

"Procedure for Studying the Neotectonic Movements  
in Connection With Seismicity," G.P. Gorshtko and  
N.P. Kostenko

Vest Mos Univ, Ser Fizikomat i Yest Nauk, No 7,  
pp 79-84

Remark that in the past two years the Sci Res Inst  
of Geology, Moscow State University has been in-  
vestigating the latest tectonic movement in West  
Turkestan.

275T90

SOKOLOV, P.N.; SHNEYDER, V.Ye.; GORSHKOV, N.A., nauchnyy red.;  
YERZHOV, A.D., glavnyy red.; NEKRASOVA, N.B., red.issd-va;  
IVANOVA, A.G., tekhn.red.

[Industry's demands in the quality of mineral raw materials;  
handbook for geologists] Trebovaniia promyshlennosti k kachestvu  
mineral'nye syr'ia; spravochnik dlia geologov. Moskva, Gos.  
nauchno-tekhn.issd-va lit-ry po geol. i okhrane nedr. No.5.  
[Asbestos] Asbest. Issd.2. 1959. 50 p. (MIRA 12:8)

1. Myscov. Vsesoyuznyy nauchno-issledovatel'skiy institut mine-  
ral'nogo syr'ya.  
(Ores--Sampling and estimation)

GORSHKOLPOV, N.A.,insh.

Prospects for expanding the asbestos industry. Stroi.mat. 5  
no.3:1-3 Mr '59. (MIRA 12:5)  
(Asbestos)

SHCHEDRINSKIY, Mikhail Borisovich; VOLEGOV, Aleksandr Vyacheslavovich;  
MYULLER, Eduard Karlovich. Prinimali uchastiye: OGNEV, A.S.,  
inzh.; BELOV, M.A., inzh.; USTINOV, D.V., inzh., retsenzent;  
GORSHKOLOPOV, N.A., otv. red.; ROMANOVA, L.A., red.izd-va;  
SABITOV, A., tekhn. red.; IL'INSKAYA, G.M., tekhn. red.

[Asbestos concentration] Obogashchenie asbestovykh rud. Mo-  
skva, Gosgortekhizdat, 1962. 233 p. (MIRA 15:7)  
(Asbestos) (Ore dressing)

GORSEKOLPOV, V.E., inzhener; B. DML RIO, kandidat tekhnicheskikh nauk;  
SHATILOV, V.V., inzhener.

Problem of determining the distance between freight container  
platforms in spacing them. Trudy RIIZHT no.20:60-70 '56.  
(Railroads--Freight) (MLRA 9:10)

BOGATCHEV, I., kand.tekhn.nauk; GORSHKOLEPOV, V.P., inzh.; KANARSKAYA,  
L.A., inzh. (Rostov-na-Donu)

Conclusions from a survey of the operations of sections with  
centralized traffic control. Zhel.dor.transp. 41 no.7:  
57-62 J1 '59. (MIRA 12:12)  
(Railroads--Train dispatching)

1. GORSHKOV, A.
2. USSR (600)
4. Research, Industrial
7. For more rapid application of scientific research work. Za ekon. mat. No. 2, 1953.
  
9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

GORSHKOV, A.

Financial discipline is the absolute law for every subdivision.  
Grazhd. av. 13 no. 9:1-2 8 '56. (MLRA 9:11)

1. Nachal'nik finansovogo otdela Glavnego upravleniya grazhdanskogo vozdushnogo flota.  
(Aeronautics, Commercial)

GORSEYKOV, A.

Unabated attention to economics and finance. Grazhd. sv. 15  
no. 3128-29 Mr '58. (MIRA 11:5)

1. Nachal'nik finansovogo otdela Glavnogo upravleniya grazhdanskogo  
vozdushnogo flota.  
(Aeronautics, Commercial--Finance)

PRUDNIKOV, G.; GORSHKOV, A., Geory Sotsialisticheskogo Truda;  
MALININA, P., Geroy Sotsialisticheskogo Truda; SEMENOV, I.,  
Geroy Sotsialisticheskogo Truda; KHALYAVIN, S.; BELOUSOV, D.;  
MORYGANOV, A.N., kand. sel'khoz. nauk; ULIN, I.I., red.;  
LEVINA, L.G., tekhn. red.

[Know how to use every hectare of land] Umelo ispol'zovat'  
kazhdyi gektar zemli. Moskva, Izd-vo MSKh RSFSR, 1962. 52 p.  
(MIRA 15:9)

1. Predsedatel' kolkhoza "Pervoye maya" Kaluzhskoy oblasti  
(for Prudnikov).
2. Predsedatel' kolkhoza "Bol'shevik"  
Vladimirskoy oblasti (for Gorshkov).
3. Predsedatel' kol-  
khoza "12-y Oktyabr'" Kostromskoy oblasti (for Malinina).
4. Predsedatel' kolkhoza "Novaya zhizn'" Tul'skoy oblasti  
(for Semenov).
5. Predsedatel' kolkhoza "Kommunar" Bryanskoy  
oblasti (for Khalyavin).
6. Sekretar' partiynogo komiteta  
kolkhoza "Put' Lenina" Bryanskoy oblasti (for Belousov).
7. Zaveduyushchiy otdelom Moskovskogo instituta sel'skogo  
khozyaystva (for Moryganov).

(Agriculture)

GORSHKOV, A.

Automatic control of production processes. NTO 4 no.1:8-12 Ja  
'62. (MIRA 15:1)

1. Glavnnyy inzh. Gosudarstvennogo optiko-mekhanicheskogo zavoda  
imeni Ob'yedinennogo gosudarstvennogo politicheskogo upravleniya  
Leningradskogo sovnarkhoza.

(Leningrad--Instrument industry) (Automatic control)

GORSHKOV, A., Geroy Sotsialisticheskogo Truda, deputat Verkhovnogo Soveta  
RSFSR i SSSR

We will create a city-type village. Sel'. stroi. no.7:24a-25  
'62. (MIRA 15:8)

1. Predsedatel' kolkhoza "Bol'shevik", Gus'-Khrustal'nogo rayona,  
Vladimirskoy oblasti.  
(Vladimir Province--Rural planning)

ANDIN'SH, P. [Andins, P.]; GOBZEMIS, Yu. [Gobzemis, J.]; GORSHKOV, A.  
MASTEROV, V.

Suggestions of Riga builders. Stroitel' 8 no.3:7-10 Mr '62.  
(MIRA 15:8)  
(Riga--Building--Technological innovations)

GORSHKOV, A.

Enough of declarations and admonitions. Grazhd.av. 20 no.8:24-25  
Ag '63. (MIRA 16:9)

1. Nachal'nik finansovogo otdela Glavnogo upravleniya Grazhdanskogo vozдушного flota.  
(Aeronautics, Commercial—Finance)

GORSHKOV, A.

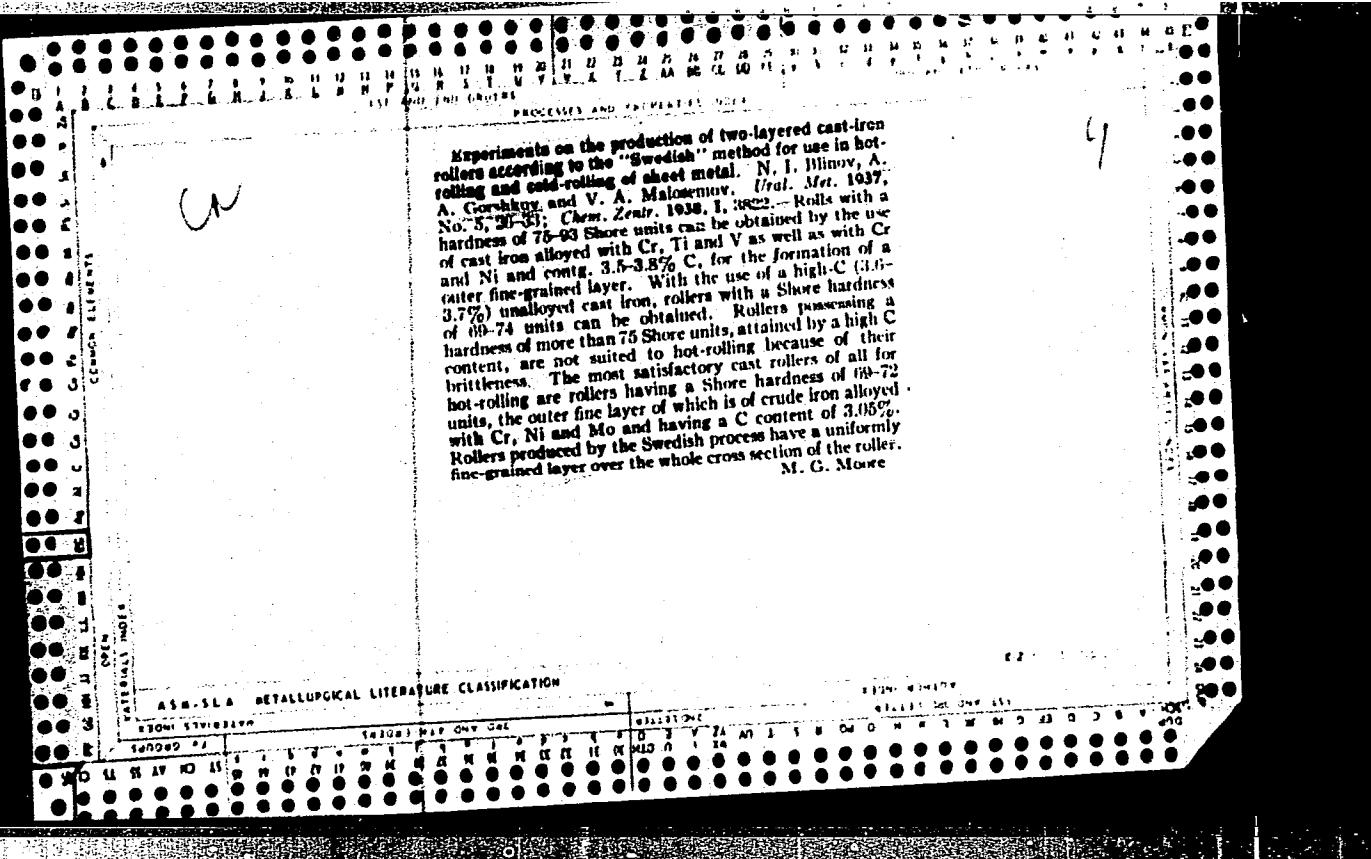
Controls of economic effectiveness. Grazhd. av. 19 no.5:12-13  
My '62. (MIRA 18:6)

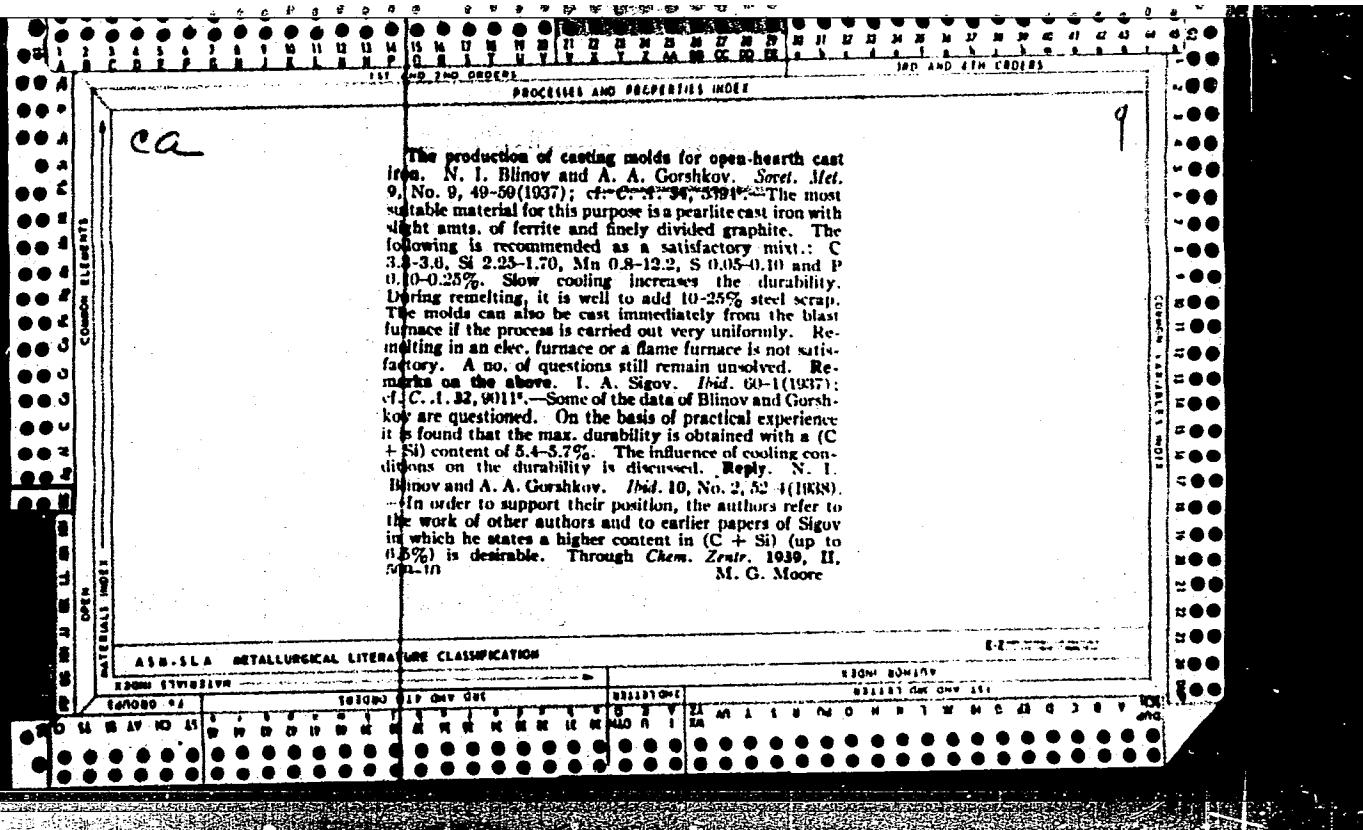
1. Nachal'nik finansovogo otdela Glavnogo upravleniya Grazhdanskogo  
vozdushnogo flota.

KOMSKIY, D. Prinimali uchebniye: VOLKOV, V.; VOLCHKOV, V.;  
GORSHKOV, A. KOPYTOV, Ye.; SALOV, V.; SHORIKOVA, T.;  
STOLYAROV, Yu., red.

[Cybernetics made easy] Prostaia kibernetika. Moskva,  
Molodaia gvardiia, 1965. 158 p. (MIRA 18:7)

1. Sverdlovskiy gosudarstvennyy pedagogicheskiy institut  
(for all except Stolyarov).





		PROCESSES AND PROPERTIES INDEX													
		1	2	3	4	5	6	7	8	9	10	11	12		
<b>CA</b>		Quality of foundry pig iron. A. A. Gorskikh. <i>Stal</i> 5, 77-83 (1955). - The paper deals with the necessity of controlling the quality of foundry pig iron at its source, i.e. in the blast furnace, and the means for insuring a uniformly high-grade foundry pig. The lack of uniformity in the delivered iron and the delivery of iron unfit for founding causes many rejects at the foundry. Similar chemical composition of foundry pig iron does not insure like behavior in casting. The pigs delivered to the foundry possess certain sp. characteristics which make them behave differently notwithstanding the similarity of their compn. Among these sp. characteristics, the quality and quantity of nonmetallic inclusions takes the 1st place followed by gas saturation of the metal. The former act as crystallization centers and determine the nature of the iron's primary crystallization. The quantity of ppts., graphite and the form in which it ppts. in gray pig and the grain size of cementite and austenite in white pig iron were detd. A greater content of nonmetallic inclusions will cause a greater pptn. of C and the resulting metal will be predominantly ferritic. A metal with the same C content but with less inclusions will be predominantly perlitic. The behavior of the 2 in founding is quite different. The quality of pig iron is also affected by the following factors: (1) the smoothness of the blast furnace's run, (2) the nature of the fuel, (3) heating of the air, (4) the ore, (5)													
		addn. of metal to the blast furnace charge, (6) the temp. at which the melt is tapped, (7) capacity of furnace, (8) treatment to which the molten metal is subjected outside the furnace, and (9) the method of teeming. An uneven run of the furnace increases the content of inclusions and causes variations in the combined C content independent of the Si content. A highly combustible fuel as well as charcoal reduces the ore at lower temps., i.e. at temps. when the solv. of O is negligible. The size and strength of the fuel lumps is important as it contributes to the smoothness of the run, keeps the shaft free, and prevents contamination of the molten metal. Mildly preheated air is very favorable for the production of high grade pig iron. A blast only mildly preheated does not raise the temp. in the crucible much and thereby prevents high C absorption. Fe produced under such conditions is mechanically strong, corrosion resistant, and is endowed with other desirable properties. Excessive moisture in the blast introduces H into the melt. The H is hard to expel and forms hydrides. The addn. of scrap to the blast-furnace charge raises the output and lowers the fuel requirement, but the pig iron is not suitable for founding because of its porosity. Treatment of the tapped melt with soda promotes desulfurization and desoxidation and greatly improves the pig iron. Centrifuging the melt frees the metal of impurities and gases. The teeming should be done carefully to avoid trapped air and impurities. It is suggested to designate certain furnaces to produce foundry pig iron and there organize a careful and exacting control of production and product.													
		M. Husch													
AMERICAN METALLURGICAL LITERATURE CLASSIFICATION															
VOLUME 19 NUMBER 10		SEPTEMBER 1955		NUMBER 11		OCTOBER 1955		NUMBER 12		NOVEMBER 1955		NUMBER 13		DECEMBER 1955	
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GORSHKOV, A. A.

"Autofrettage of Ingot Molds and Their Manufacture from Conversion Pig Irons  
(Forge ~~Pig~~ Pig or Puddling Iron)" Stal', No.5, pp. 359-63, 1945

Evaluation B-59660

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CIA-RDP86-00513R000516320003-1"

GORSHKOV, ANDREY ANDREEVICH, ed.

Otlivki dlja metallurgicheskogo oborudovaniia. Sverdlovsk, Mashgiz,  
1947- diagrs.

Bibliography: v. 1, p. 276-282.

Castings for metallurgical equipment.

DLC: TS230.G66

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of  
Congress, 1953.

GORSHKOV, A. A.

GORSHKOV, A.A., professor, redaktor; BUKHVALOVA, K.I., redaktor;  
NICHETEV, V.M., tekhnicheskiy redaktor.

[Founding industry] Liteinoe proizvodstvo. Sverdlovsk, Gos.  
nauchno-tekhn. izd-vo mashinostroit. lit-ry [Sverdlovskoe  
otd-nie] 1947. 52 p.  
(MLRA 7:8)

1. Vsesoyuznoye nauchno-tekhnicheskoye obshchestvo mashino-  
stroiteley. Ural'skoye otdeleniye. 2. Sverdlovskoye otdeleniye  
Mashgiza.  
(Founding)

GORSHKOV, ANDREY ANDREEVICH, ed. and E. I. RABINOV.

Poverkhnostnoe legirovanie stal'nykh otlivok. Sverdlovsk, Mashgiz, 1950.  
60 p.

Surface alloyage of steel castings.

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of  
Congress, 1953.

GORSHKOV, ANDREY<sup>4</sup> ANDREEVICH, ed.

Liteinoe proizvodstvo (Opyt ural'skikh zavodov) Sverdlovsk, Mashgiz,  
1950. 184 p.

Founding. (Practice of Ural plants.)

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of  
Congress, 1953.

GORSHKOV, A.A., professor, redaktor; ZHAROV, N.T., kandidat tekhnicheskikh  
naук, redaktor; DUGINA, N.A., tekhnicheskiy redaktor

[Foundry practice; experience of Ural plants] Liteinoe proizvodstvo;  
opyt Ural'skikh zavodov, Pod red. A.A.Gorshkova. Moskva, Gos.  
nauchno-tehn. izd-vo mashinostroit. lit-ry, 1951. 166 p. [Microfilm]  
(MLRM 10:4)

1. Vsesoyuznoye nauchnoye inzhenerno-tehnicheskoye obshchestvo  
liteyshchikov. Ural'skoye otdeleniye.  
(Ural Mountain region--Founding)

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GORSHKOV, A. A.

"One Basic Term Relating to Founding," Lit. proiz., No.5, 1952

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CIA-RDP86-00513R000516320003-1"

~~GORSHKOV, A.A.~~, doktor tekhnicheskikh nauk, professor, redaktor; DU-BITSKIY, G.M., kandidat tekhnicheskikh nauk, redaktor; BAZAROVA, N.V., inzhener; redaktor; YERMAKOV, N.P., tekhnicheskiy redaktor.

[Advanced founding technology: experience of Ural plants] Peredovaya tekhnologiya litseinogo proizvodstva; opyt Ural'skikh zavodov. Pod red. A.A.Gorshkova. Moskva, Mashgiz, 1953, 206 p. (MLRA 7:11)

1. Nauchnoye inzhenerno-tehnicheskoye obshchestvo liteyschikov. Ural'skoye otdeleniye.

(Ural Mountain region--Founding) (Founding--Ural Mountain region)

GORSHKOV, A.A.

ZHAROV, N.T.; GORSHKOV, A.A., professor, doktor tekhnicheskikh nauk, re-daktor.

[Problem of automation in foundry practice] Voprosy avtoma-tizatsii liteinogo proizvodstva. Pod red. A.A.Gorshkova.

Moskva, Gos. nauchn.-tekhn. izd-vo mashinostroitel'noi i su-destroitel'noi lit-ry, 1953. 262 p. (MLRA 7:7)

(Founding)

GORSHKOV, A.A.

*Concerning a "new" casting system. Lit. proizv. no. 7:32-3 of cover JI '53.  
(MILB 6:7)  
(Founding)*

GORSHKOV, A.A., professor, doktor tekhnicheskikh nauk, predsedatel' prezidiuma.

Letter to the editor. Lit.proizv. no.8:28 Ag '53.

(MLR 6:8)

1. UONITOL.

(Founding)

GORSHKOV, A.A.

VOLPYANSKIY, I.M.; GORSHKOV, A.A., doktor tekhnicheskikh nauk, retsenzent;  
ZHAROV, N.T., doktor tekhnicheskikh nauk, retsenzent; ZAKHAROVA, B.P.  
inzhener, redaktor; DUGINA, I.A., tekhnicheskiy redaktor

[Casting iron in metallic molds] Chugunnoe lit'e v metallicheskie  
formy. Pod red. B.P.Zakharova. Moskva, Gos. nauchno-tekhn. izd-vo  
mashinostroit. lit-ry, 1954. 52 p. (Nauchno-populiarnaia biblioteka  
rabochego-litaischika, no.8) [Microfilm] (MIRA 8:2)  
(Iron founding)

"APPROVED FOR RELEASE: 08/25/2000

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CIA-RDP86-00513R000516320003-1"

AKHAN'IN, Anatoliy Andreyevich; CHERNOBROVKIN, Viktor Petrovich; GORSEKOV,  
A.A., redaktor; VOLPYANSKIY, L.M., redaktor; BORITSKIY, A.A., retsen-  
zent; DUGINA, N.A., tekhnicheskiy redaktor

[Smelting iron in cupola-furnaces] Plavka chuguna v vagrancie. Mo-  
skva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1955. 66 p.  
(MLRA 9:3)

(Cast iron) (Cupola furnaces)

VOLFYANSKIY, Lev Markovich; GORSHKOV, A.A., doktor tekhnicheskikh nauk,  
redaktor; DUBITSKIY, G.M., kandidat tekhnicheskikh nauk, retsen-  
zent; ZAKHAROV, B.P., inzhener, retsenzent; DUGINA, N.A., tekhnici-  
cheskiy redaktor

[Casting and hardening metals] Razlivka i zatverdyanie metalla.  
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry 1955. 80 p.  
(Nauchno-populiarnaya biblioteka rabochego-litseiashchika, no. 13)  
(Founding) (MIRA 9:3)

GORSHKOV, A.A., doktor tekhnicheskikh nauk, redaktor; ZAKHAROV, B.P., inzhener,  
redaktor; DUGINA, N.A., tekhnicheskiy redaktor.

[Increasing the productivity of foundry shops; utilizing the productive  
capacities of Ural plants] Povyshenie proizvodstvennykh resursov litseykh  
tskhov; ispol'zovaniye rezervev proizvodstva na Ural'skikh zavodakh. Pod.  
red. A.A. Gorshkova. Moskva, 'Gos. nauchno-tekhn. issledovatel'stvo: lit-  
ry, 1955. 170 p. (MERA 9:6)

1. Vsesoyuznaya nauchno-tehnicheskaya obshchestvo mashinostroitel'noy  
promyshlennosti. Ural'skoye otdeleniye.  
(Foundries)

GORSHKOV, A.A.

Mechanism of the Formation of Spheroidal Graphite. A. A.

Gorshkov. *Llitinoe Proizvodstvo*, 1955(3), 17-20. (In Russian).

This is a contribution to the theory of the formation of spheroidal graphite through the action of inoculators and the related effect of "de-inoculation." After a discussion of existing theories the formation of graphite nuclei through the reaction of Mg vapour with the CO and CO<sub>2</sub> present in cast iron and the processes occurring in a bubble of the vapour rising through liquid iron are considered. The action of many elements in graphitization is discussed in relation to their position in the Periodic Table. Finally, the occurrence of spheroidal graphite in minerals is discussed.—S. K.

*J. T. F.*

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CIA-RDP86-00513R000516320003-1

GORSHKOV, A.A.

Hidden potentialities of foundries in the Urals. Lit.proisv.  
no.8:1-6 Ag'55. (MIRA 8:11)  
(Ural Mountain region--Foundry)

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CIA-RDP86-00513R000516320003-1"

GORSHKOV, P.A.

ANTONOV, Petr Georgiyevich, tekhnolog, geroy truda; GORSHKOV, A.A., doktor  
tekhnicheskikh nauk, retsensent; OSIN, I.A., inzhener, redaktor;  
KOZLOV, A.G., redaktor; KALETINA, A.V., inzhener, vedushchiy redaktor;  
DUGINA, N.A., tekhnicheskiy redaktor.

[Advice to young foundry workers] Sovety molodomu liteishchikam, Izd.  
2-ee, perer. i dop. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.  
lit-ry, 1956. 59 p. (MLRA 10:4)

1. Uralmashzavod.(for Antonov)  
(Foundry)

*Gorshkov, H.H.*

Influence of sulfur on crystallization of cast iron. A. A. Gorshkov, S. S. Nosyreva, and R. A. Sidorenko. *Llitans* Presented to 1956, No. 4, 23-4.—Effect of sulfide inclusions on crystallization of graphite was investigated. Graphite content in iron with 3.65% C, 2.22% Si, and 0.54% Mn was increased by adding calcium sulfide. After annealing, and studying the structure of the casting and its radiogram, of the micrograph of the casting and its radiogram, both showing a light mesh surrounding dark areas, and the distribution of sulfides around the graphite particles, it was found that the sulfides were located near the grain boundaries. Treating the same iron with a conc.  $\text{H}_2\text{S}$  only reduced the  $\text{S}$  content in the casting and produced modified graphite, but no  $\text{S}$  concns around it or at the grain boundaries. Sulfides were found around the graphite grains.

*Metal**3**-Pmt**Df print*

25-9 (Russian) Inclusions Modification and Degassing  
of Aluminum Alloys Odnorazmennoe modifikirovaniye i  
degassing vlyazemykh slizheznykh aluminium. A. A. Gorbunov  
G. Korotki. Litovnoe Proizvodstvo, 1986, no. 17, p.  
p. 6-9.  
Consists of adding low melting chloride instead of the usual  
or their alloys.

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CIA-RDP86-00513R000516320003-1

GORSHKOV, A.A., doktor tekhnicheskikh nauk; BORETSKIY, A.A., dotsent.

Origin of the word "vagranks" [cupola furnace]. Trudy Ural.  
politekh. inst. no.60:66-73 '56. (MLRA 9:10)

(Cupola furnaces) (Russian language--Words--History)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000516320003-1"

GORSHKOV, A.A., doktor tekhnicheskikh nauk; VAGIN, V.V., inzhener.

Effect of jolting and vibration during solidification on the  
structural and mechanical properties of aluminum alloys. Trudy  
Ural. politekh. inst. no.60:183-191 '56. (MLRA 9:10)

(Aluminum founding)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000516320003-1

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GORSHKOV, G.A., inzhener.

Making castings using meltable nonferrous-alloy casting  
patterns. Trudy Ural. politekh. inst. no.60:192-198 '56.

(MLRA 9:10)

(Foundry machinery and supplies) (Patternmaking)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000516320003-1"

*GORSHKOV A.A.*

VOLPYANSKIY, Lev Markovich; POPOV, A.D., kandidat tekhnicheskikh nauk.,  
retsensent; GORSHKOV, A.A., doktor tekhnicheskikh nauk, professor,  
redaktor; YERMAKOV, B.P., tekhnicheskiy redaktor

[Charge for iron and steel casting] Shikhta dlia chugunnogo i  
stal'nogo lit'ia. Pod red. A.A.Gorshkova. Moskva, Gos.sauchno-  
tekhn. izd-vo mashinostroit.lit-ry, 1957. 61 p. (Nauchno-populiarnaya  
biblioteka rabochego-litseishchika, no.10) (MLRA 10:8)  
(Open hearth process)

GORSHKOV, A.A.

BOGACHEV, I.N., doktor tekhnicheskikh nauk, retsenzent; GORSHKOV, A.A.,  
doktor tekhnicheskikh nauk, retsenzent; SAMOYLOV, S.I., professor,  
retsenzent; ZHUKOV, P.A., kandidat ekonomicheskikh nauk, retsenzent;  
PAL'MOV, Ye.V., doktor tekhnicheskikh nauk, redaktor; SOKOLOVSKIY,  
V.I., kandidat tekhnicheskikh nauk, redaktor; SARAFANNIKOVA, G.A.,  
tekhnicheskiy redaktor

[Improving quality and operating economy of machines] Povyshenie  
kachestva i ekonomichnosti mashin. Pod red. E.V.Pal'mova i V.I.  
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lit-ry, 1957. 626 p. (MLRA 10:9)

1. Nauchno-tehnicheskoye obshchestvo mashinostroitel'noy  
promyshlennosti. Sverdlovskoye otdeleniye  
(Machinery industry)

SOV/137-58-7-13983

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 2 (USSR)

AUTHOR: Gorshkov, A. A.

TITLE: The Major Stages in the Development of Ferrous Metallurgy in the Urals During the 250 Years of its Existence (Osnovnyye etapy v razvitiu ural'skoy chernoy metallurgii za dva s polovinoy veka yeye sushchestvovaniya)

PERIODICAL: Tr. Ural'skogo politekhn. in-ta, 1957, Nr 40, pp 7-48

ABSTRACT: A historical economic survey is presented, examining the scientific, political, and economic foundations on which the ferrous metallurgy of the Urals has developed through the following stages: 1st quarter of the 18th century (1699-1725), 2nd quarter of the 18th century (1726-1750), 3rd quarter of the 18th century (1751-1775), last quarter of the 18th century (1776-1800), the 19th century period of the Reforms (1801-1861), the post-Reform period of the 19th century, and the first 16 years of the 20th (1862-1916), Urals metallurgy during the first years of Soviet power and the period of reconstruction (1917-1928), during the pre-war Five-Year Plans (1928-1940), during the years of the great Patriotic

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SOV/137-58-7-13983

The Major Stages in the Development of Ferrous Metallurgy in the Urals (cont.)

War (1941-1945) and thereafter. Bibliography: 12 references.

D. P.

1. Metallurgy--USSR. 2. Metallurgy--Economic aspects

Card 2/2

VOLPYANSKIY, Lev Markovich.; ZAKHAROV, B.P.,red.; GORSHKOV, A.A., doktor  
tekhn. nauk, retsenzent.; ZHAROV, N.T., kand.tekhn.nauk, retsenzent.;  
DUGINA, N.A., tekhn. red.

[Casting in metal molds] Lit'e v metallicheskie formy. Izd. 2.  
Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958.  
60 p.. (Nauchno-populiarnaia biblioteka rabochego-liteishchika, no.8).  
(MIREA 11:12)

(Founding)

GORSHKOV, A.A.

Forty years of founding in the Urals. Lit. proizv. no.1:28-32 Ja  
'58. (MIRA 11:2)  
(Ural Mountain region--Founding)

GORSHKOV, A.A.; ZAKHAROV, B.P.; KALETINA, A.V.

Popular science literature on foundry practices. Lit. proizv.  
no.3:31-32 Mr '58. (MIRA 11:4)  
(Founding)

GORSHKOV, A.A.

128-53-4-2/12

AUTHORS: Gorshkov, A.A., Corresponding Member of the Ukrainian Academy of Sciences, and Markhasev, B.I., Engineer

TITLE: Bentonites of Ukrainian Deposits (Bentonity ukrainskikh mestorozhdeniy)

PERIODICAL: Liteynoye Proizvodstvo, 1958, No. 4, pp 2-7 (USSR)

ABSTRACT: Bentonite clays are very extensively used in Western Europe and have nearly fully replaced all other clay additives for molding mixes in the USA. However, they have been very little used so far in the USSR because of their scarcity and inaccessibility; in the Oglanlinskoye (Turkmenia) and Askanskoye (Caucasus). About 10 bentonite deposits have been discovered in the Ukraine, the largest being the Cherkassky (Cherkasskoye) deposit in the central Ukraine, south of Kiyev, and the Gorbsk (Gorbskoye) in Zakarpatskaya Oblast', east of Uzhgorod. Both deposits are located near railroads and highways. The first deposit has a 40 m thick layer of clay at a depth of 20 m with an estimated 4.4 billion tons; the second deposit has approximately 16,8 million tons, and its 40 m clay stratum is 7 m below the surface. Both depo-

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Bentonites of Ukrainian Deposits

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sits have railroad sidings. A deposit in Pyatikhatki is also mentioned. The article contains general information on compositions, physical and mechanical properties of bentonite clays, as well as recommendations on the compositions of foundry mixes with bentonite. It was revealed by experiments that, contrary to opinions in Soviet technical literature, bentonite is well suited for dry molding. The trust "Formrazvedka" tested the technological properties of the Gorbsk bentonite in 1951, in Leningrad plants. A special expedition of the Institut mashinovedeniya AN UkrSSR (Institute of Mechanical Engineering of the AS UkrSSR) mined 12 t of bentonite of the Cherkassy deposit. Industrial tests were carried out at the "Bol'shevik", "Leninskaya Kuznitsa" and the Plant of Automatic Machine Tools imeni Gor'kiy (all in Kiyev). The technology and the results of these tests are given. The Sovnarkhoz of the Kiyev economic region is organizing an open mine and a clay-powder plant at the Cherkassy deposit. The information on the chemical composition and physical properties of the Ukrainian bentonite clays is accompanied by comparisons with bentonites, found in the USA. The following persons, apart from the authors, participated in experimental work on

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Bentonites of Ukrainian Deposits

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bentonites: Geologist R. Kh. Slutskaya, Junior Scientific Worker (mladshiy nauchnyy sotrudnik), G.A. Sorokina, the Engineers of Kiyev plants Ye.M. Nosova, D.B. Kugel', V.A. Krepak, V.I. Krasnova, B.K. Gizmayer, A.V. Pines, I.S. Tar-takovskiy, the Technicians A.N. Bysk and Ye.B. Vashkulat. Chemical analyses and pH determinations were performed by A.F. Bessonov. Chief Metallurgist of the Kiyev Sovnarkhoz, G.F. Yakovenko, assisted at the tests.

There are 8 diagrams, 5 tables, and 10 references, 7 of which are Soviet, 1 German, and 2 English.

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